KITT Scanner

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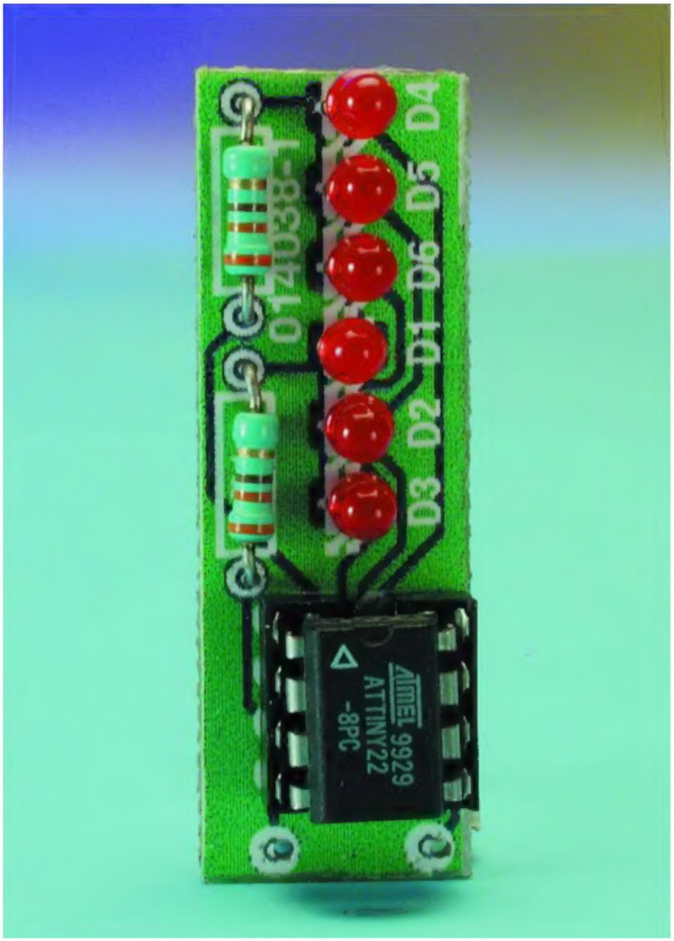

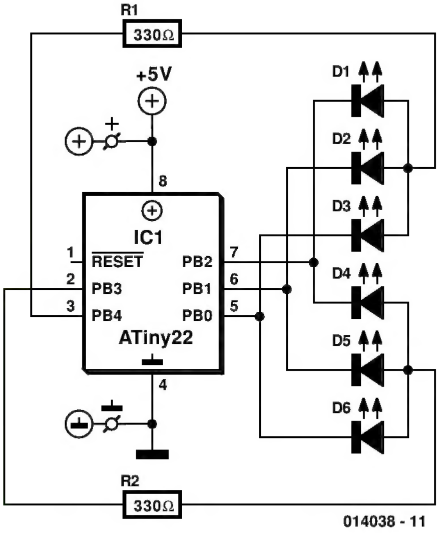

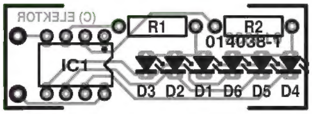

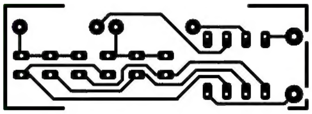

COMPONENTS LIST

Resistors:
R1,R2 = 330Ω

Semiconductors:
D1-D5 = LED, high-efficiency
IC1 = Atiny22 (Atmel)

R. van Arum

Among all the designs for running and flashing light displays we have published over the years — and that's a respectable number — there is one that can be said to have generated truly phenomenal interest: the 'KITT scanner'. Although it appeared quite a while back (16 years ago already!), we still receive requests for it. Was it such a wonderful design? Not at all; it was just a simple light pattern that continuously ran from left to right and back again – but as luck would have it, the hero of a TV series that was very popular at the time drove around in a car with exactly the same type of display mounted in the grille. Naturally, all of his enthusiastic fans wanted to have exactly the same thing. Since, as we have mentioned, the interest in this display has not completely died out, we think that the mini version described here will be appreciated by many of our (younger) readers. It is based on a small Atmel microcontroller (the Atiny22), and if you use the printed circuit board layout shown here, you can work it into an extremely original brooch or earring for the disco. As can be seen from the schematic diagram, the circuit contains only two resistors and six high-efficiency LEDs in addition to the controller. Although the control program is very simple, it is still too big to be printed here. However, if you are interested you can download it (free of charge) from our website at www.elektor-electronics. co.uk. Look for file number **014038-11**, Free Downloads section.

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